TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-17-01** **Date: 25-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	17-01-17
Sample ID No	:	2017-01-17-01-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	18-01-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	144	144	2.88	97.1	95-100
3	20 mm	1895	2039	40.78	59.2	30-70
4	10 mm	1965	4004	80.08	19.9	10-35
5	4.75 mm	880	4884	97.68	2.3	0-5
6	Pan	116	5000	100	0.0	---

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore -97

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-17-01** **Date: 25-01-2017**

Sample ID No : 2017-01-17-01-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**12.2**	_
2	Elongation Index(%)	**11.9**	_
3	Specific Gravity	**2.63**	_
4	Bulk Density(Loose) (Kg/l)	**1.47**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.23**	_

Note:

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-01-17-01** **Date: 25-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-01-17
Sample ID No	:	2017-01-17-01-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	18-01-17

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore -97

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	175	175	3.5	96.5	95-100
3	10 mm	2115	2290	45.8	54.2	25-55
4	4.75 mm	2615	4905	98.1	1.9	0-5
5	Pan	95	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-01-17-01** **Date: 25-01-2017**

Sample ID No : 2017-01-17-01-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**13.2**	_
2	Elongation Index(%)	**11.7**	_
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.55**	_
5	Bulk Density(Compacted) (Kg/l)	**1.58**	_
6	Water Absorption(%)	**0.26**	_
7	Ten percent fine value(KN)	**205**	_
8	Aggregate crushing Value(%)	**24.3**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**22.8**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-01-17-01** **Date: 25-01-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-01-17
Sample ID No	:	2017-01-17-01-02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
		IS: 2386 :1963(Part - 1, 2, 3) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities.
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	18-01-17
Total weight taken	:	1000 grams

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Sl no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	29	29	2.9	97.1	90-100	90-100	90-100	95-100
3	2.36 mm	50	79	7.9	92.1	60-95	75-100	85-100	95-100
4	1.18 mm	65	144	14.4	85.6	30-70	55-90	75-100	90-100
5	600 micron	308	452	45.2	54.8	15-34	35-59	60-79	80-100
6	300 micron	260	712	71.2	28.8	5-20	8-30	12-40	15-50
7	150 micron	202	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-01-17-01** **Date: 25-01-17**

Sample ID No : 2017-01-17-01-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	3.15	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	4.65	Not more than 15 percent

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2016-12-14-01** **Date: 13-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-12-16
Sample ID No	:	2016-12-14-01-01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-12-2016 to 12-01-2017

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Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.75	–
2	Finess by Air permeablity method (m2/kg, Min)	272.5	225m^2/kg, Min
3	Density (gm/cc)	2.9	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	210 minutes	Not less than 30 minutes

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2016-12-14-01** **Date: 13-01-2017**

Sample ID No : **2016-12-14-01-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	305 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
	7 Days	37.5N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-10-02** **Date: 13-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-2017
Sample ID No	:	2017-01-10-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-01-2017
Oven Dry Weight(gm)	:	11500

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	335	335	2.91	97.09	95-100
22.4	2209	2544	22.12	77.88	60-80
11.2	2170	4714	40.99	59.01	40-60
4.75	2254	6968	60.59	39.41	25-40
2.36	1750	8718	75.81	24.19	15-30
0.6	595	9313	80.98	19.02	8-22
0.075	2037	11350	98.70	1.30	0-5

Note:-

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Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-05-01** **Date: 09-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-01-2017
Sample ID No	:	2017-01-05-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	05-01-2017
Oven Dry Weight(gm)	:	11600

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	345	345	2.97	97.03	95-100
22.4	2239	2584	22.28	77.72	60-80
11.2	2180	4764	41.07	58.93	40-60
4.75	2284	7048	60.76	39.24	25-40
2.36	1760	8808	75.93	24.07	15-30
0.6	595	9403	81.06	18.94	8-22
0.075	2037	11440	98.62	1.38	0-5

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-15-01** **Date: 18-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-01-2017
Sample ID No	:	2017-01-15-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	15-01-2017
Oven Dry Weight(gm)	:	11775

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	435	435	3.69	96.31	95-100
22.4	2309	2744	23.30	76.70	60-80
11.2	2170	4914	41.73	58.27	40-60
4.75	2254	7168	60.87	39.13	25-40
2.36	1775	8943	75.95	24.05	15-30
0.6	595	9538	81.00	19.00	8-22
0.075	2037	11575	98.30	1.70	0-5

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-18-01** **Date: 21-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-01-2017
Sample ID No	:	2017-01-18-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	18-01-2017
Oven Dry Weight(gm)	:	11800

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	335	335	2.84	97.16	95-100
22.4	2309	2644	22.41	77.59	60-80
11.2	2270	4914	41.64	58.36	40-60
4.75	2304	7218	61.17	38.83	25-40
2.36	1800	9018	76.42	23.58	15-30
0.6	595	9613	81.47	18.53	8-22
0.075	2037	11650	98.73	1.27	0-5

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

Note:-
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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-01-25-01** **Date: 28-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-01-2017
Sample ID No	:	2017-01-25-01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	25-01-2017
Oven Dry Weight(gm)	:	11900

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	535	535	4.50	95.50	95-100
22.4	2209	2744	23.06	76.94	60-80
11.2	2170	4914	41.29	58.71	40-60
4.75	2354	7268	61.08	38.92	25-40
2.36	1800	9068	76.20	23.80	15-30
0.6	645	9713	81.62	18.38	8-22
0.075	2037	11750	98.74	1.26	0-5

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Note:-

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-01-22-01**	**Date:25-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.	
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	22-01-2017	
Sample ID No	:	2017-01-22-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	22-01-2017	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	14.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.2%	
Combined Flakiness and Elongation Index for WMM	25.7%	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore - 97

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-01-15-01**	**Date:18-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.	
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-01-2017	
Sample ID No	:	2017-01-15-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	15-01-2017	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	15.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.8%	
Combined Flakiness and Elongation Index for WMM	27.9%	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-01-10-02**	**Date: 13-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.	
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-01-2017	
Sample ID No	:	2017-01-10-02/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	10-01-2017	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.8%	
Combined Flakiness and Elongation Index for WMM	22.9%	

Assistant Executive Engineer Vidyaranyapura Sub Div BBMP, Bangalore-91

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Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-01-10-02** **Date: 13/01/2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-2017
Sample ID No	:	2017-01-10-02/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	10-01-2017

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	345.0	345.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.2	73.5
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	271.4	270.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.9
5	Aggregate impact value	(B/A)*100	21.2	21.3
6	Aggregate impact value (Mean of two tests)	Pecentage	21.3	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Prepared By:
Harshitha

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-01-22-01** **Date:25-01-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-2017
Sample ID No	:	2017-01-22-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	22-01-2017

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	344.0	344.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.9	73.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	270.8	270.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.7
5	Aggregate impact value	(B/A)*100	21.2	21.2
6	Aggregate impact value (Mean of two tests)	Pecentage	21.2	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Prepared By:
Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2017-02-01-01** **Date: 07-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in Ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-17
Sample ID No	:	2017-02-01-01/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004), Stripping Value IS:6241-1971((Reaffirmed-2003)
Date of test	:	01-02-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**95.3**	80 to 100
2	Softening Point, °C	**51.2**	Min. 40°C
3	Ductility, cm	**98.0**	Min. 75cm
4	Flash point, °C	**242.5**	Min. 220°C
	Fire point, °C	**299**	
5	Stripping Value	**2.0**	Not more than 5%

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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Authorized Signatory
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TEST RESULTS OF GRADATION FOR SDBC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-02-01-01**	**Date: 07-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13	
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-02-17	
Sample ID No	:	2017-02-01-01/01	
Type of Mix	:	SDBC-Plant (Semi Dense Bituminous Concrete)	
Date of test	:	01-02-17	
Oven Dry Weight(gm)	:	5000	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100	100
9.5	265	265	5.3	94.7	90-100
4.75	2254	2519	50.4	49.6	35-51
2.36	975	3494	69.9	30.1	24-39
1.18	621	4115	82.3	17.7	15-30
0.3	283	4398	88.0	12.0	9-19
0.075	132	4530	90.6	9.4	3-8
PAN	470	5000	100	0	0

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Authorized Signatory
Quality Manager

Prepared By:
Harshitha

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-02-01-01**	**Date: 07-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13	
Customer Reference	:	EE/BTP/BBMP/E-PMT/229 /2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-02-17	
Sample ID No	:	2017-02-01-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	01-02-17	

Result:

Flakiness Index	8.5%
Elongation Index	10.9%
Combined Flakiness & Elongation Index for SDBC	19.4%

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore-97

Comments:

Maximum allowable Flakiness & Elongation Index For SDBC is 30 %

Note:-

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Harshitha

R KARTHIK RECHAN
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TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID : **CP-RW-2017-02-01-01** **Date: 07-02-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to roads at Narasipura 2nd Stage in Ward No.09 in Vidyaranyapura Sub Division.

Agency : Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13

Customer Reference : EE/BTP/BBMP/E-PMT/229/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-02-17

Sample ID No : 2017-02-01-01/01

Type of Mix : SDBC (Semi Dense Bituminous Concrete)

Date of test : 01-02-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	304.8	304.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.1	71.5
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.4	232.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impct value	(B/A)*100	22.67	23.50
6	Aggregate impct value (Mean of two tests)		23.1	

Assistant Executive Engineer
Vidyaranyapura Sub Division
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF BITUMEN CONTENT FOR SDBC
(AS per IRC:SP:-11-1984)

Lab ID	:	**CP-RW-2017-02-15-01**	**Date: 18-02-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in Ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnnarayana, #38, Channappa Layout, Sharadamba nagara, Jalahalli Village, Bangalore-13	
Customer Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	15-02-17	
Sample ID No	:	2017-02-15-01/01	
Type of Mix	:	SDBC (Semi Dense Bituminous Concrete)	
Date of test	:	15-02-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	502
2	Weight of the sample After extraction	B	472	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.78
4	Average percentage	%	5.69	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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Harshitha

R KARTHIK RECHAN
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Lab ID : **CP-RW-2017-02-15-01** **Date: 18-02-17**

Sample ID No : **2017-02-15-01/01**

AFTER EXTRACTION (Trail-1)

Oven Dry Weight(gm) : 472

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	18	18	3.8	96.2	90-100
4.75	219	237	50.2	49.8	35-51
2.36	111	348	73.7	26.3	24-39
1.18	49	397	84.1	15.9	15-30
0.3	30	427	90.5	9.5	9-19
0.075	28	455	96.4	3.6	3-8

AFTER EXTRACTION (Trail-2)

Oven Dry Weight(gm) : 473

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-15(grading-2)
13.2	0	0	0	100.0	100
9.5	14	14	3.0	97.0	90-100
4.75	232	246	52.0	48.0	35-51
2.36	75	321	67.9	32.1	24-39
1.18	42	363	76.7	23.3	15-30
0.3	45	408	86.3	13.7	9-19
0.075	50	458	96.8	3.2	3-8

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Harshitha

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-02-14-01** **Date: 13-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-17
Sample ID No	:	2017-02-14-01-02
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2017	12/03/2017	150.22 X 150.77 X 150.54	22649	8.116	414.5	18.3	18.2
2	PCC	M15	12/02/2017	12/03/2017	151.98 X 150.23 X 150.22	22832	8.322	420.1	18.4	
3	PCC	M15	12/02/2017	12/03/2017	150.78 X 150.56 X 150.55	22701	8.229	406.4	17.9	

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore-97

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-02-14-01** **Date: 20-02-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	14-02-17
Sample ID No	:	2017-02-14-01-01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	12/02/2017	19/02/2017	150.13 X 150.15 X 150.19	22542	8.213	304.3	13.5	13.8
2	PCC	M15	12/02/2017	19/02/2017	150.23 X 150.24 X 150.25	22571	8.321	309.2	13.7	
3	PCC	M15	12/02/2017	19/02/2017	150.29 X 150.39 X 150.44	22602	8.442	318.7	14.1	

Note:
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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Prepared by
Harsitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-02-18-02** **Date: 24-03-17**

Customer : Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura, Sub Division, BBMP, Bangalore.

Project Name : Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.

Agency : Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.

Customer's Reference : EE/BTP/BBMP/E-PMT/229/2015-16

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-02-17

Sample ID No : 2017-02-18-02-02

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/02/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	16/02/2017	23/02/2017	150.13 X 150.54 X 150.66	22601	8.229	386.5	17.1	16.9
2	RCC	M20	16/02/2017	23/02/2017	150.89 X 150.98 X 150.99	22781	8.227	375.9	16.5	
3	RCC	M20	16/02/2017	23/02/2017	150.15 X 150.17 X 150.33	22548	8.321	387.8	17.2	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-02-18-02** **Date: 17-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-02-17
Sample ID No	:	2017-02-18-02-01
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	16/02/2017	16/03/2017	150.22 X 150.54 X 150.28	22614	8.330	490.7	21.7	22.0
2	RCC	M20	16/02/2017	16/03/2017	150.89 X 150.20 X 150.45	22664	8.187	496.3	21.9	
3	RCC	M20	16/02/2017	16/03/2017	150.77 X 150.32 X 150.87	22664	8.342	509.9	22.5	

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R KARTHIK RECHAN
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Quality Manager

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP Bangalore - 97

****End of Report****

M 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-17-01** **Date: 26-01-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-01-17
Sample ID No	:	2017-01-17-01-03
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	23-01-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.611	538	637	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

Note:
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R KARTHIK RECHAN
Authorized Signature
Quality Manager

Prepared By:
Harshitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-01-17-01**	**Date: 26-01-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura, Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements and Asphalting to roads at Narasipura 2nd Stage in ward No.09 in Vidyaranyapura Sub Division.	
Agency	:	Sri. Aswathnarayana, #38, Channappa layout, Sharadamba nagara, Jalahalli village, Bangalore-13.	
Customer's Reference	:	EE/BTP/BBMP/E-PMT/229/2015-16	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-01-17	
Sample ID No	:	2017-01-17-01-04	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	23-01-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	12mm	0.875	564	663	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	12mm	Satisfactory	Satisfactory

Note:
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Authorized Signature
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Harshitha

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